



Serology and cultivation for 3 years 2008-2010 in Denmark

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Brucellosis Workshop 2011 on Malta

Serology and cultivation for 3 years
2008-2010 in Denmark

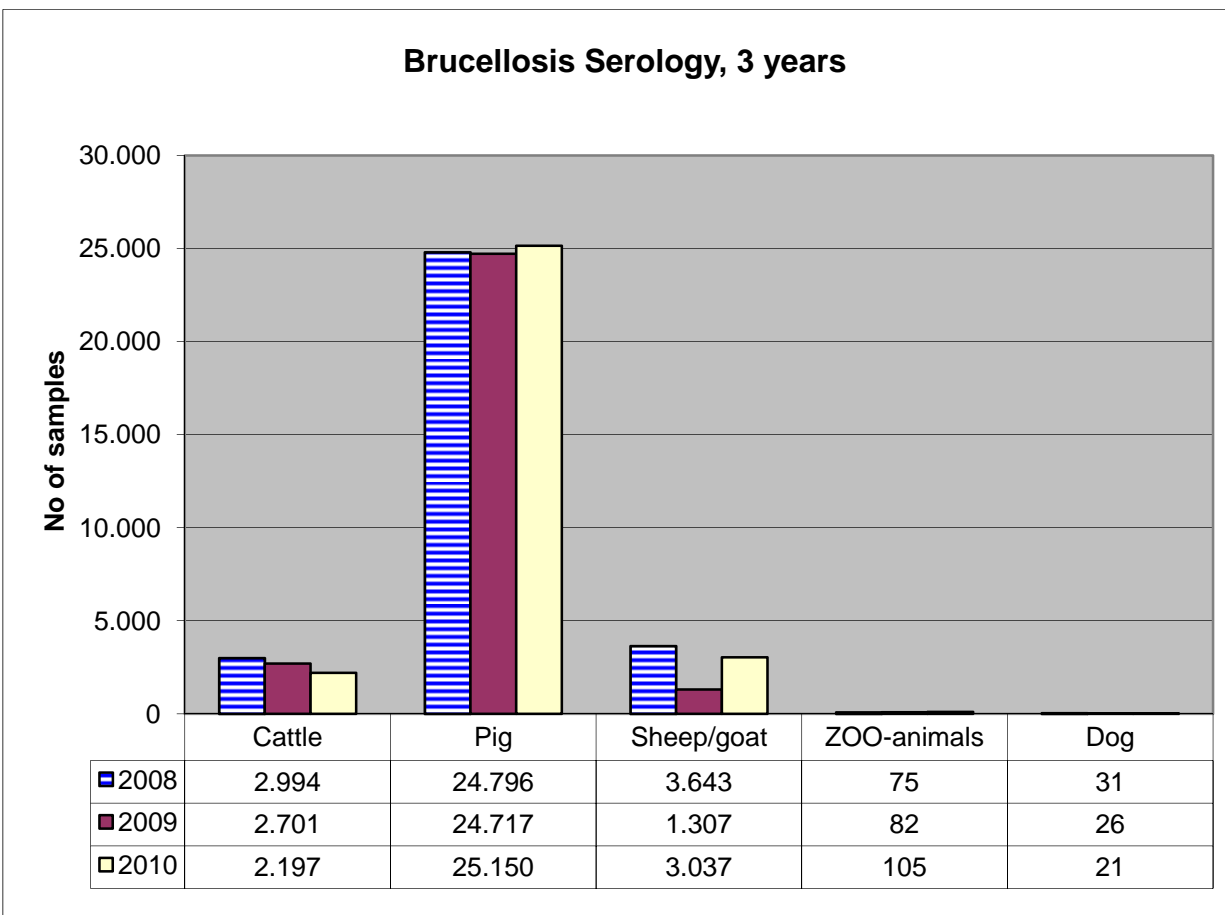
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DTU Vet
National Veterinary Institute

$$P_{RG} = \frac{AP+Sp-1}{Se+Sp-1} \int_a^b \varepsilon \Theta^{\sqrt{17}} + \Omega \int \delta e^{i\pi} = \{2.7182818284\}$$

Δ ∞ χ^2 Σ $!$ \gg \approx

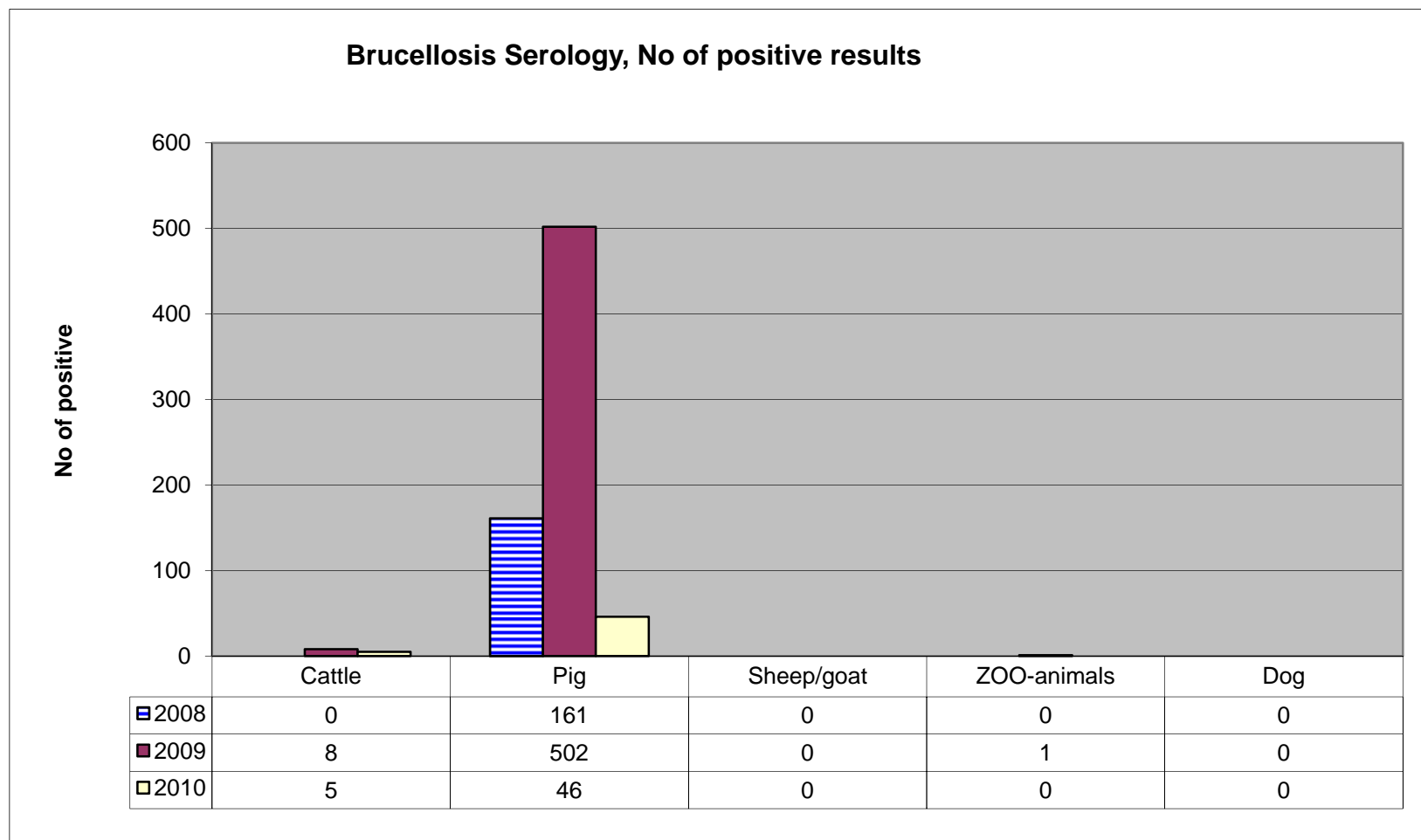
Brucellosis serology

2008-2010



Brucellosis serology 2008-2010

POS results=FPSR



Brucella cultivation 2008-2010

Class 3 lab

2 gram from each tissue in a stomacher

Direct cultivation on blood agar and Brucella agar in
in CO₂(10%) at 37°

Incubation for 10 days (reading 2th, 3th—day 10)

Control: *Brucella suis* biovar 2

Pos agglutination with monospecific *Brucella* antisera
and/or

Pos PCR (genus specific), isolate sent for reference lab.

Brucella cultivation 2008-2010

- No of cultivation:
-
- **2008:** 76 samples from 30 cases (*29 pigs, 1 dog*)
- **2009:** 43 samples from 21 cases (*18 pigs, 1 dolphin, 2 hares*)
- **2010:** 45 samples from 29 cases (*27 pigs, 2 hares*)
-
- Every cultivation was negative
- PCR technique not performed



BRUCELLOSIS tests in 2010 at the DTU, National Veterinary Institute.

Table 1. Serology and cultivation of samples of blood and tissues from cattle, pig, sheep and goat, zoo-animals(incl. hares), and dogs. N = numbers of animals tested, C = numbers of submissions, (P) = numbers of positive values. All positive serology values were considered as FPSR in 2010.

Prevalence of FPSR in cattle: 0.23%. Prevalence of FPSR in pig : 0.18%.

	Cattle N(P)C	Pig N(P)C	Sheep/goat N(P)C	Zoo-animal* N(P)C	Dog N(P)C
Total serology	2.197 (5) 518	25.150 (46) 949	3.037 (0) 396	105 (0) 36	21 (0) 21
PURPOSE:					
Export	478(0) 138	10.213 (35) 231	0	83 (0) 26	20 (0) 20
Import	1 (0) 1	11 (0) 1	0	1 (0) 1	0
Diagnostic	36 (2) 11	105 (0) 7	30 (0) 4	21 (0) 9	1 (0) 1
Surveillance/ Breeding	1.667 (3) 367	14.743 (9) 700	2.807 (0) 390	0	0
Abroad	15 (0) 1	78 (2) 10	200 (0) 2	0	0
METHODS:					
SAT	1.914 (5)	5.170 (24)	0	43 (0)	–
RBT	10 (0)	15.959 (10)	2.933 (0)	0	–
CFT	110 (0)	4.013 (12)	100 (0)	38(0)	–
ELISA i	163 (0)	0	0	24 (0)	–
ELISA c	0	8 (0)	0	0	–
AGG-kit	–	–	–	–	21 (0)
Cultivation	0	43 (0) 27	0	2 hares(0)	0

*Zoo-animals: Antelope:7, bison: 30, elephant: 3, giraffe: 1, gnu: 1, hare: 1, deer: 1, camel: 8, red deer: 24, llama: 3, musk ox: 2, rhinoceros: 2, okapi: 1, reindeer: 10, vicunja: 1, not specified : 2.

Thank you for your attention

